REPLACEMENT SHEET

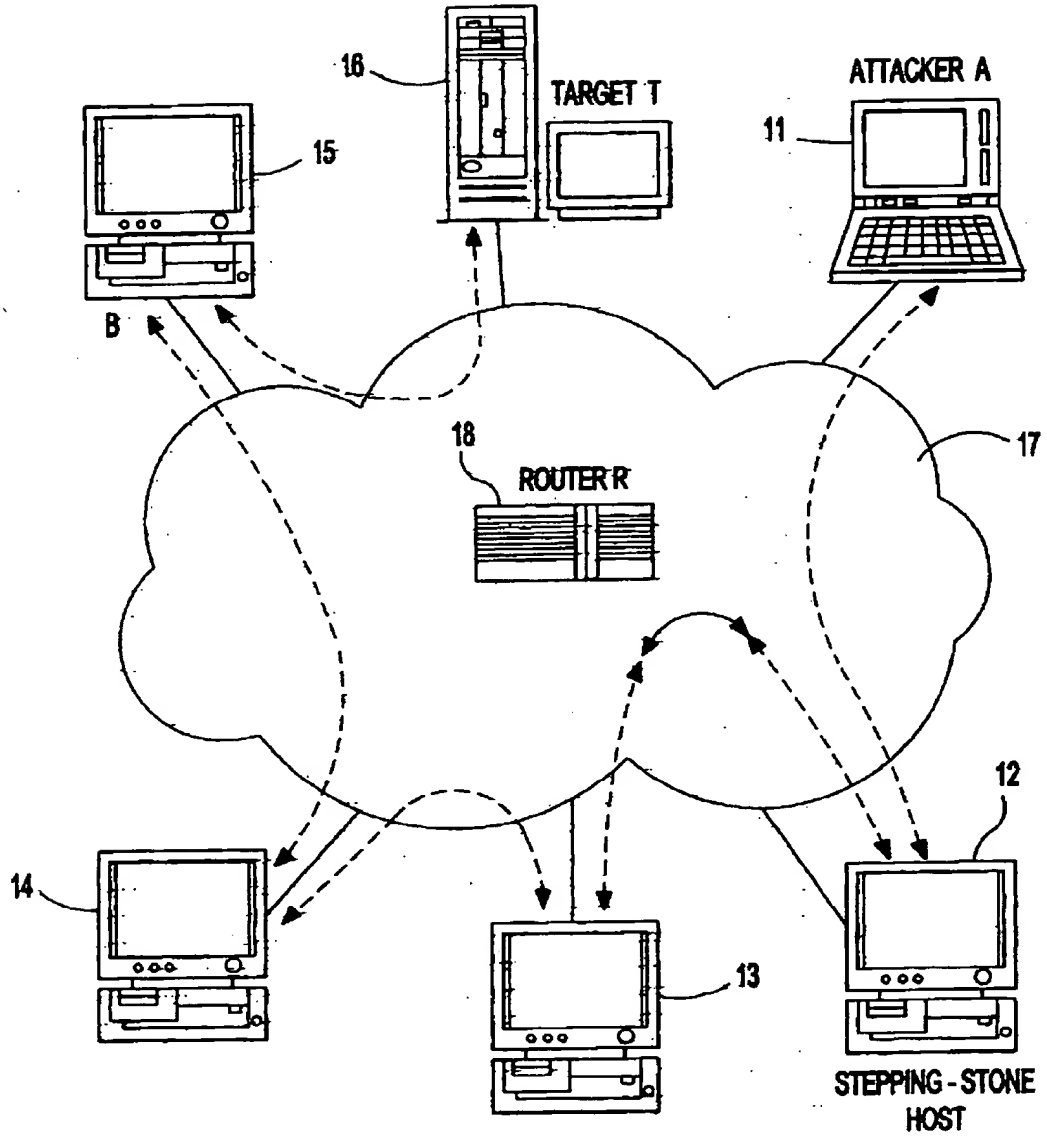


FIG.1
(PRIOR ART)

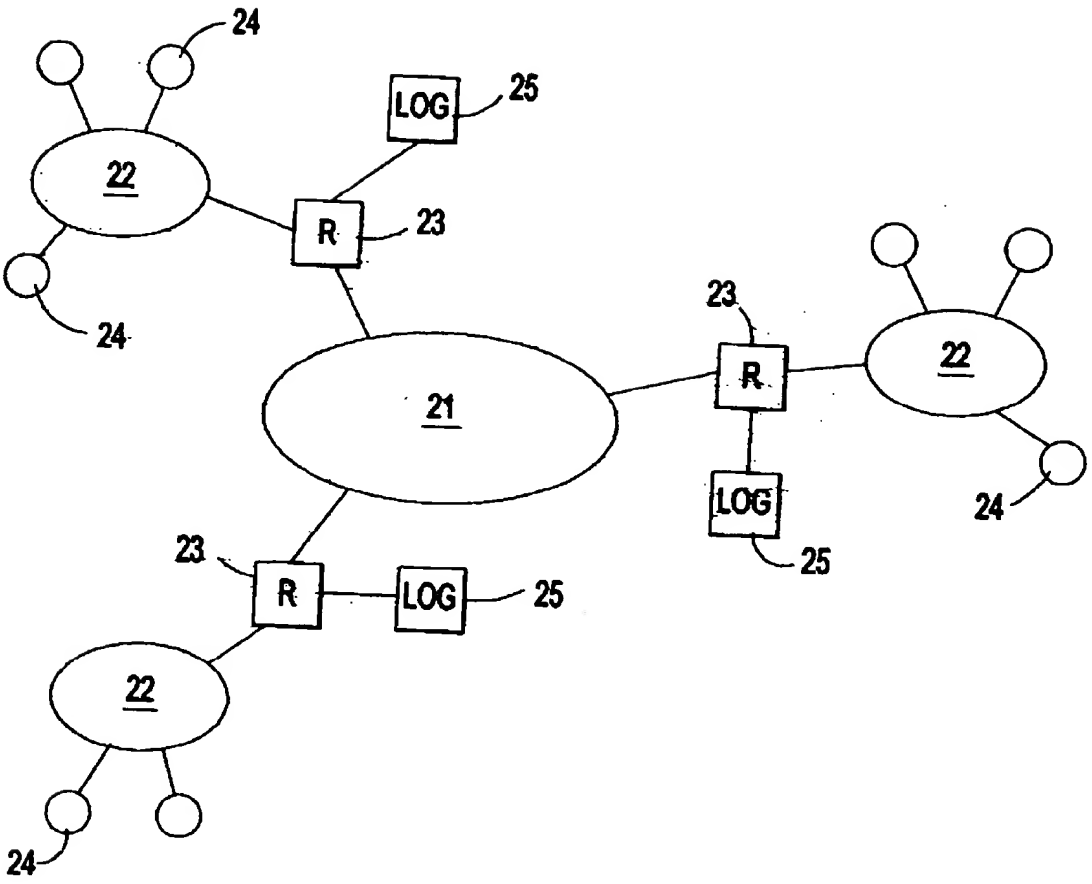


FIG.2

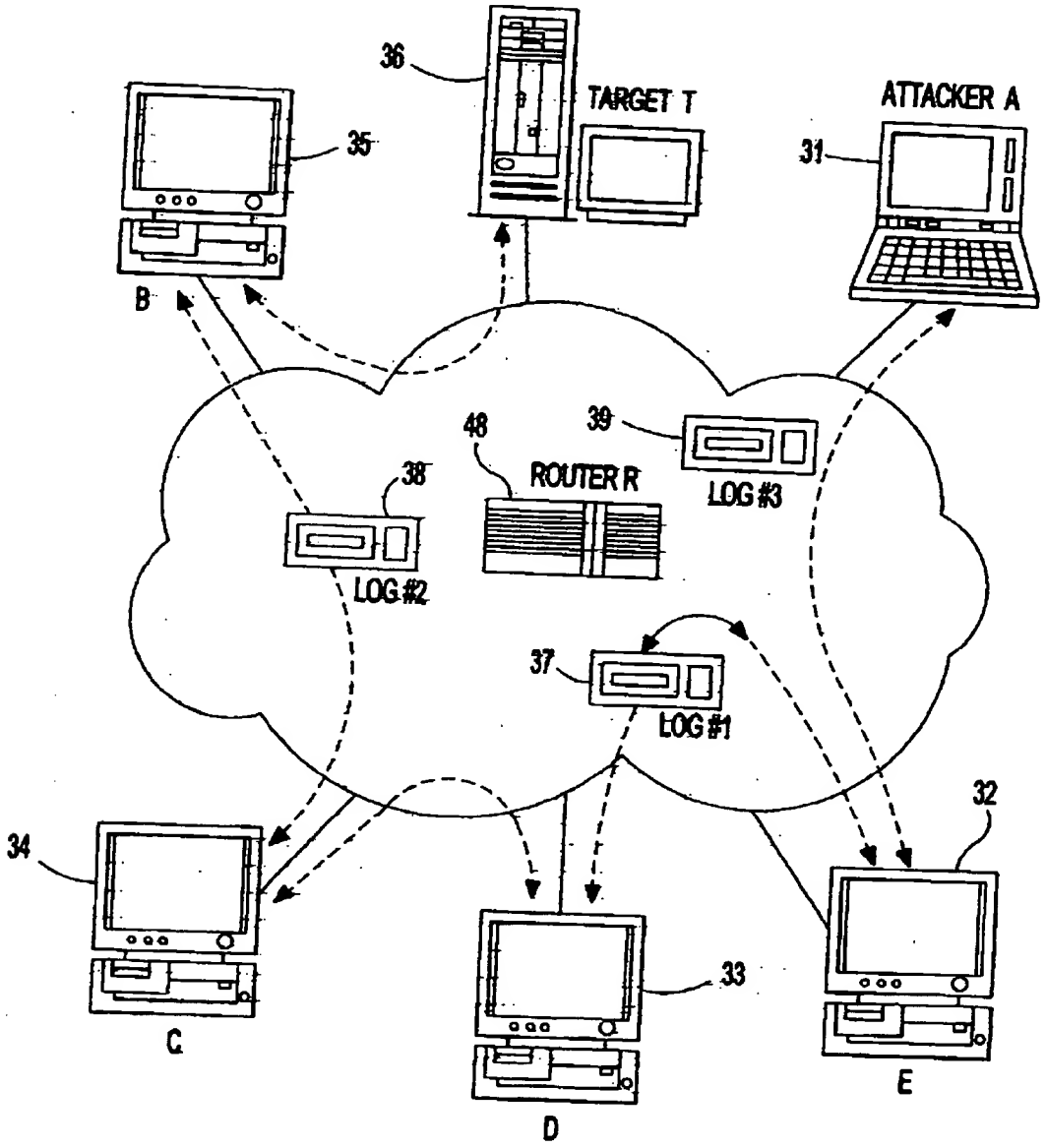

36
TARGET T
ATTACKER A
35
31
B
48
39
ROUTER R
LOG #3
38
LOG #2
37
LOG #1
32
34
33
C
D
E

FIG.3

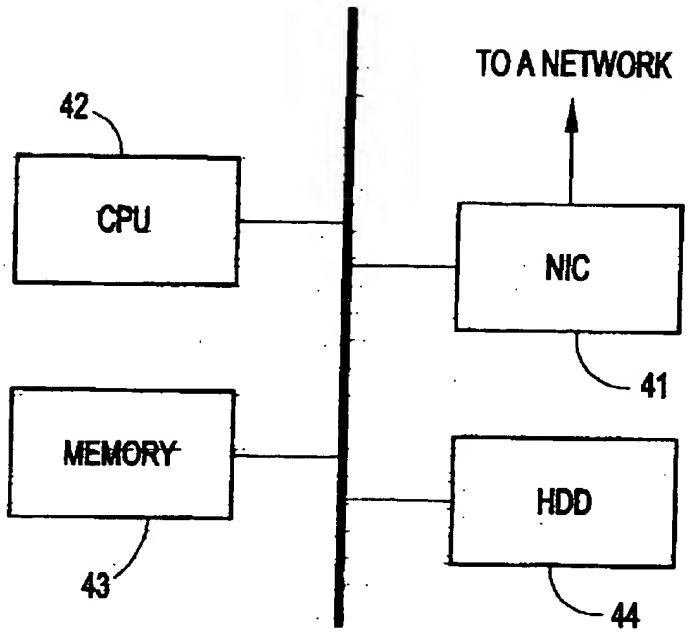

TO A NETWORK
42
CPU
NIC
41
MEMORY
HDD
43
44

FIG.4

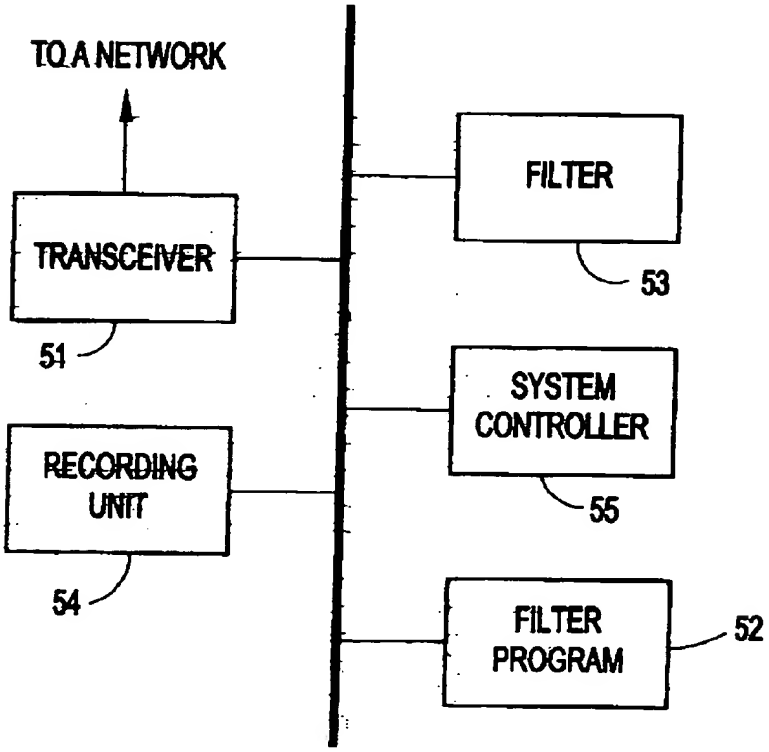

TO A NETWORK
FILTER
53
TRANSCEIVER
51
SYSTEM
CONTROLLER
RECORDING
UNIT
55
54
FILTER
PROGRAM
52

FIG.5

FIG.6

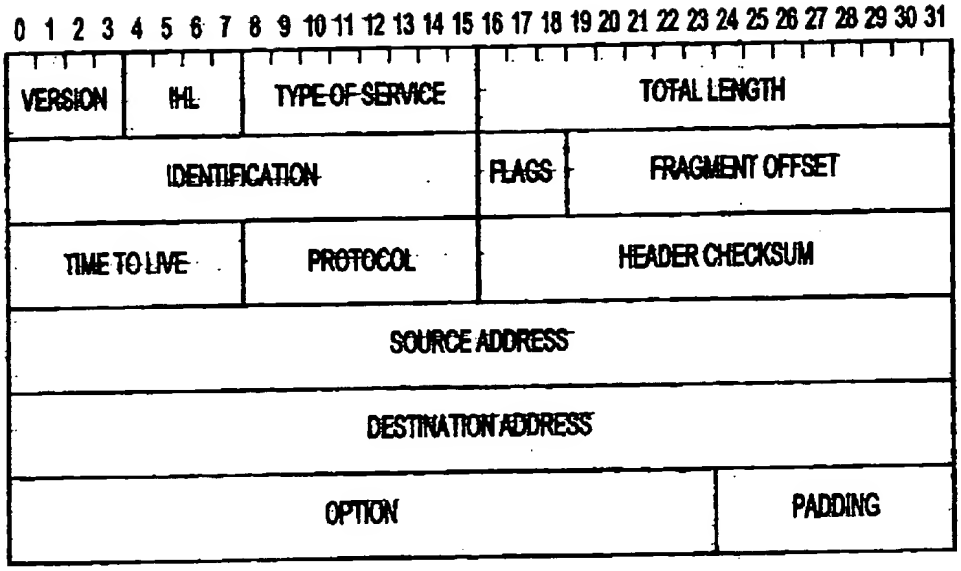
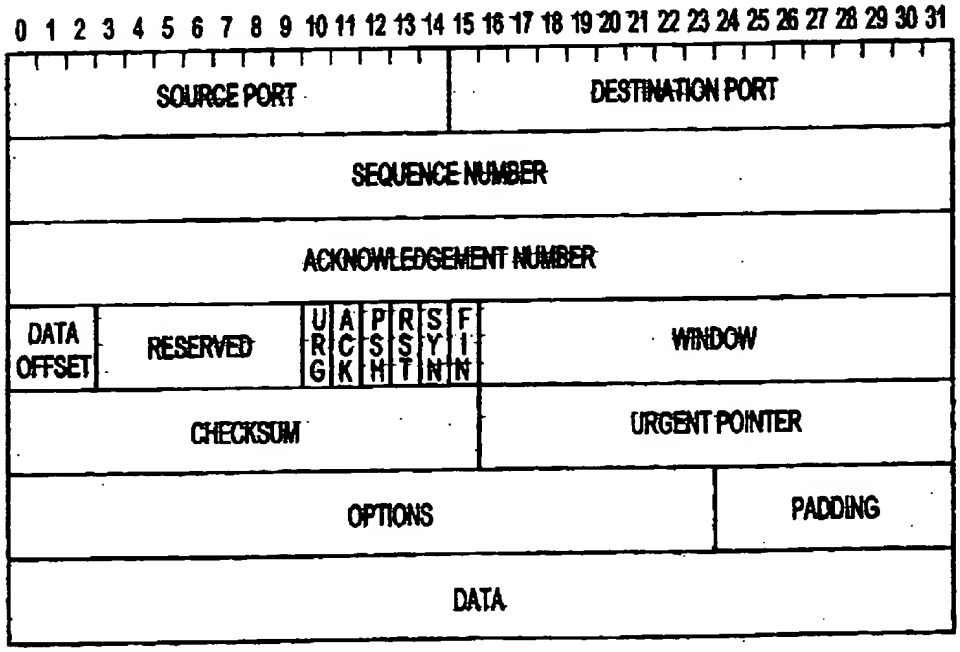

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
VERSION
IHL
TYPE OF SERVICE
TOTAL LENGTH
IDENTIFICATION
FLAGS
FRAGMENT OFFSET
TIME TO LIVE
PROTOCOL
HEADER CHECKSUM
SOURCE ADDRESS
DESTINATION ADDRESS
OPTION
PADDING

FIG.7


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
SOURCE PORT
DESTINATION PORT
SEQUENCE NUMBER
ACKNOWLEDGEMENT NUMBER
DATA OFFSET
RESERVED
URG
ACK
PSH
RST
SYN
FIN
WINDOW
CHECKSUM
URGENT POINTER
OPTIONS
PADDING
DATA

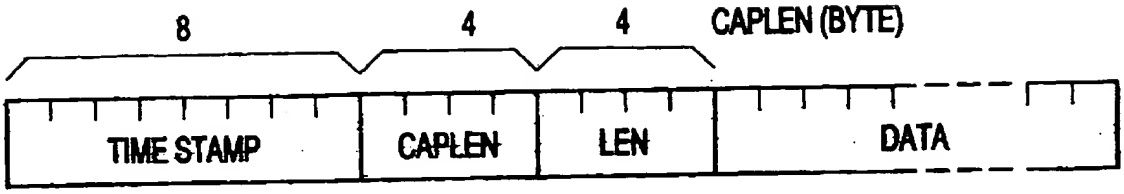
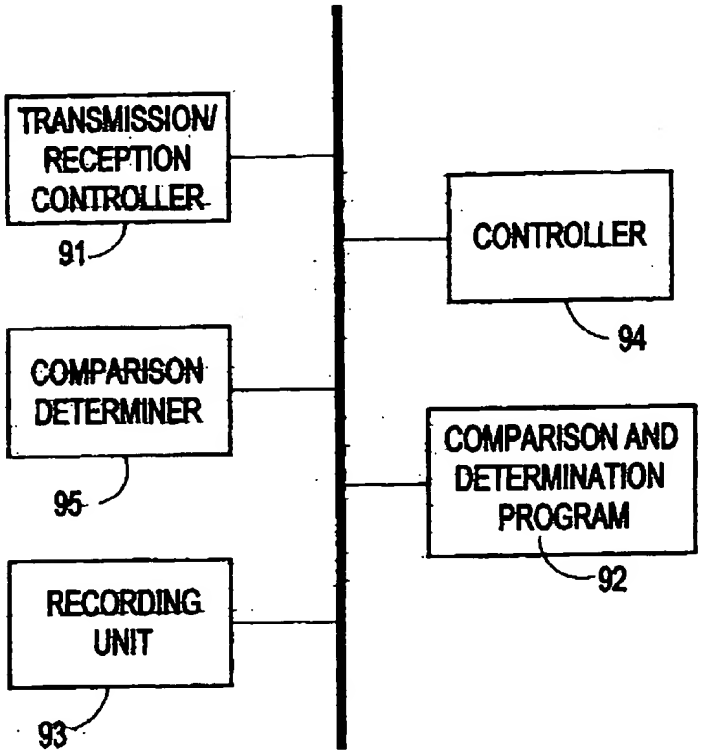

8
4
4
CAPLEN (BYTE)
TIME STAMP
CAPLEN
LEN
DATA

FIG.8

FIG.9


TRANSMISSION/ RECEPTION CONTROLLER
91
CONTROLLER
94
COMPARISON DETERMINER
95
COMPARISON AND DETERMINATION PROGRAM
92
RECORDING UNIT
93

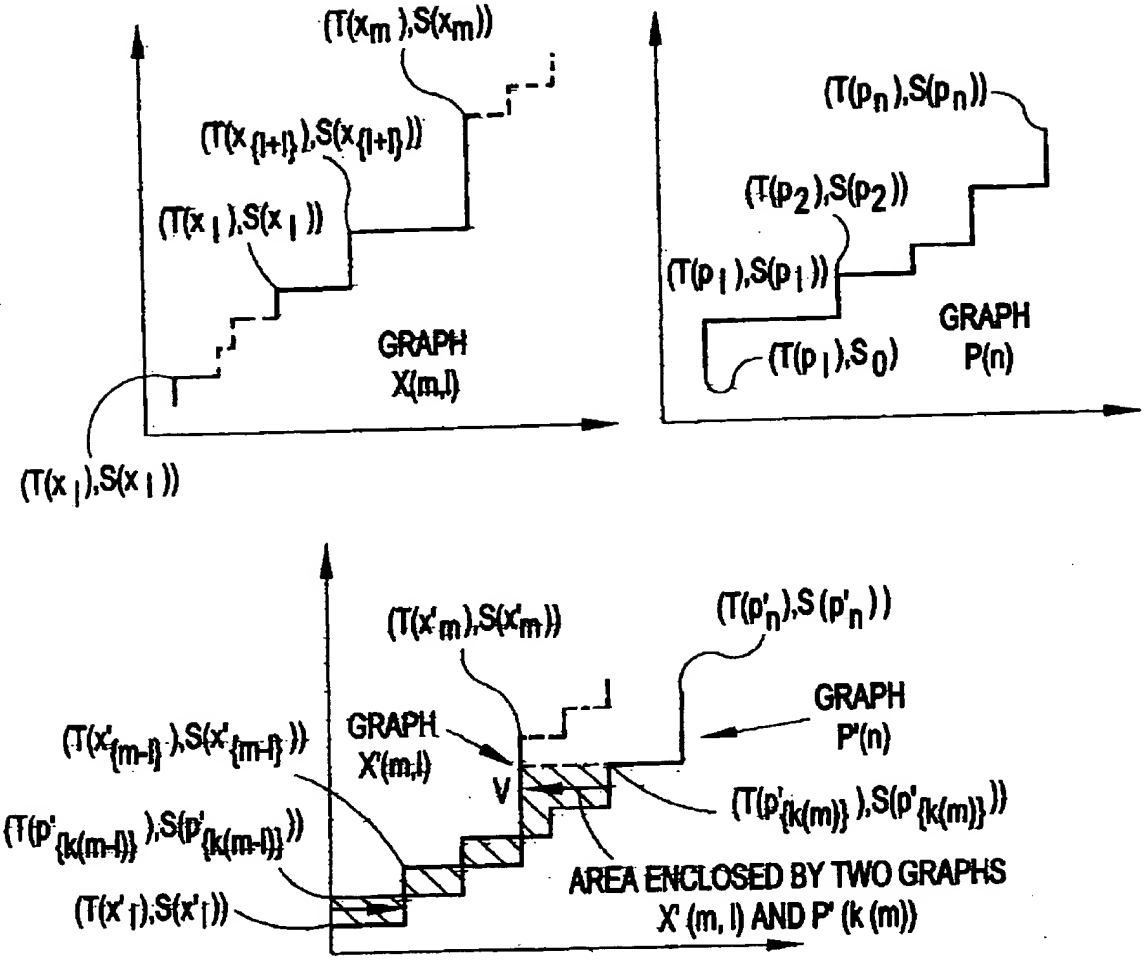

(T(x_m),S(x_m))
(T(x_{l+l}),S(x_{l+l}))
(T(x_l),S(x_l))
GRAPH
X(m,l)
(T(x_l),S(x_l))
(T(p_n),S(p_n))
(T(p_2),S(p_2))
(T(p_l),S(p_l))
(T(p_l),S_0)
GRAPH
P(n)
(T(x'_m),S(x'_m))
(T(p'_n),S(p'_n))
GRAPH
X'(m,l)
GRAPH
P'(n)
(T(x'_{m-l}),S(x'_{m-l}))
V
(T(p'_{k(m)}),S(p'_{k(m)}))
(T(p'_{k(m-l)}),S(p'_{k(m-l)}))
AREA ENCLOSED BY TWO GRAPHS
X' (m, l) AND P' (k (m))
(T(x'_1),S(x'_1))

FIG.10